Aeronautics Educator Guide  2004 Science				
				Grade Level Articulations Arizona Science
Grade 2				
Activity/Lesson	State	Standards		
Activity/Lesson	State	Standards	Formulate relevant questions about the	
			properties of objects, organisms, and events in	
Air Engines (12-16)	AZ	SCI.2.1.1.PO 1	the environment.	
All Linglines (12-10)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	301.2.1.1.1 0 1	Construct reasonable explanations of	
			observations on the basis of data obtained (e.g.,	
			Based on the data, does this make sense?	
Air Engines (12-16)	AZ	SCI.2.1.3.PO 2	Could this really happen?).	
7 til Eligilioo (12 10)	, <u>L</u>	001.2.1.0.1 0 2	Generate questions for possible future	
			investigations based on the conclusions of the	
Air Engines (12-16)	AZ	SCI.2.1.3.PO 4	investigation.	
/gcc ( c)		00.120	Describe objects in terms of measurable	
			properties (e.g., length, volume, weight,	
Air Engines (12-16)	AZ	SCI.2.5.1.PO 1	temperature) using scientific tools.	
J == ( = ,			Generate questions for possible future	
			investigations based on the conclusions of the	
Rotor Motor (69-75)	AZ	SCI.2.1.3.PO 4	investigation.	
Making Time Fly (80-			Communicate the results and conclusions of an	
86)	AZ	SCI.2.1.4.PO 1	investigation (e.g., verbal, drawn, or written).	
Making Time Fly (80-			Communicate with other groups to describe the	
86)	AZ	SCI.2.1.4.PO 2	results of an investigation.	
Where is North? The			Generate questions for possible future	
Compass Can Tell Us			investigations based on the conclusions of the	
(87-90)	AZ	SCI.2.1.3.PO 4	investigation.	
Let's Build a Table Top			Communicate with other groups to describe the	
Airport (91-96)	AZ	SCI.2.1.4.PO 2	results of an investigation.	
			Formulate relevant questions about the	
Dunked Napkin (17-			properties of objects, organisms, and events in	
22)	AZ	SCI.2.1.1.PO 1	the environment.	
Dunked Napkin (17-			Participate in guided investigations in life,	
22)	AZ	SCI.2.1.2.PO 2	physical, and earth and space sciences.	
B			Use simple tools such as rulers, thermometers,	
Dunked Napkin (17-	A 7	00104000	magnifiers, and balances to collect data (U.S.	
22)	AZ	SCI.2.1.2.PO 3	customary units).	
Dunkad Nankin / 17			Record data from guided investigations in an	
Dunked Napkin (17-	AZ	SCI.2.1.2.PO 4	organized and appropriate format (e.g., lab	
22) Dunked Napkin ( 17-	74	301.2.1.2.704	book, log, notebook, chart paper).	
22)	AZ	SCI.2.1.3.PO 3	Compare the results of the investigation to predictions made prior to the investigation.	
<u> </u>	74	301.2.1.3.70 3	Generate questions for possible future	
Dunked Napkin ( 17-			investigations based on the conclusions of the	
22)	AZ	SCI.2.1.3.PO 4	investigation.	
Dunked Napkin ( 17-	/ V_	001.2.1.0.1 0 4	Communicate the results and conclusions of an	
22)	AZ	SCI.2.1.4.PO 1	investigation (e.g., verbal, drawn, or written).	
<b></b> ;	, <u>, , , , , , , , , , , , , , , , , , </u>	001.2.1.7.1 0 1	Describe objects in terms of measurable	
Dunked Napkin ( 17-			properties (e.g., length, volume, weight,	
22)	AZ	SCI.2.5.1.PO 1	temperature) using scientific tools.	
<b></b> )	/ <b>/</b> _	JOOI.2.J. 1.1 O T	temperature, using scientific tools.	

Dunked Napkin ( 17-		SCI.2.5.1.PO	Demonstrate that water can exist as a (liquid –
22)	AZ	3.2	water)
<b></b> )	, <u>L</u>	0.2	Formulate relevant questions about the
Paper Bag Mask (23-			properties of objects, organisms, and events in
28)	AZ	SCI.2.1.1.PO 1	the environment.
Paper Bag Mask (23-			Compare the results of the investigation to
28)	AZ	SCI.2.1.3.PO 3	predictions made prior to the investigation.
			Generate questions for possible future
Paper Bag Mask (23-			investigations based on the conclusions of the
28)	AZ	SCI.2.1.3.PO 4	investigation.
			Describe objects in terms of measurable
Paper Bag Mask (23-			properties (e.g., length, volume, weight,
28)	AZ	SCI.2.5.1.PO 1	temperature) using scientific tools.
			Formulate relevant questions about the
Wind in Your Socks)			properties of objects, organisms, and events in
(29-35)	AZ	SCI.2.1.1.PO 1	the environment.
			Use simple tools such as rulers, thermometers,
Wind in Your Socks)			magnifiers, and balances to collect data (U.S.
(29-35)	AZ	SCI.2.1.2.PO 3	customary units).
			Construct reasonable explanations of
Min al in Marra Caralra			observations on the basis of data obtained (e.g.,
Wind in Your Socks)	^7	001242002	Based on the data, does this make sense?
(29-35)	AZ	SCI.2.1.3.PO 2	Constant questions for passible future
Mind in Your Sooka)			Generate questions for possible future
Wind in Your Socks) (29-35)	AZ	SCI.2.1.3.PO 4	investigations based on the conclusions of the investigation.
(29-33)	//L	301.2.1.3.1 0 4	Describe objects in terms of measurable
Wind in Your Socks)			properties (e.g., length, volume, weight,
(29-35)	AZ	SCI.2.5.1.PO 1	temperature) using scientific tools.
Wind in Your Socks)	, <u>L</u>	001.2.0.1.1 0 1	Analyze the relationship between clouds,
(29-35)	AZ	SCI.2.6.3.PO 4	temperature, and weather patterns.
Air: Interdisciplinary			process of the proces
Learning Activities (36-			Analyze the relationship between clouds,
39)	AZ	SCI.2.6.3.PO 4	temperature, and weather patterns.
			Generate questions for possible future
			investigations based on the conclusions of the
Bag Balloons (40-43)	AZ	SCI.2.1.3.PO 4	investigation.
			Generate questions for possible future
			investigations based on the conclusions of the
Sled Kite (44-51)	AZ	SCI.2.1.3.PO 4	investigation.
			Describe objects in terms of measurable
01 1169 (44.54)		00107170	properties (e.g., length, volume, weight,
Sled Kite (44-51)	AZ	SCI.2.5.1.PO 1	temperature) using scientific tools.
			Predict the results of an investigation (e.g., in
Diaht Fliaht (FO FO)	\	001044000	animal life cycles, phases of matter, the water
- 100t F100t /6') 511	AZ	SCI.2.1.1.PO 2	cycle).
Right Flight (52-59)		i .	
niyiil Fiiyiil (52-59)	A	onautica Educati	or Guido
raynı Fiight (52-59)	Aer	onautics Educate	
rayılı Filgili (ə2-əy)		2004 Science	9
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	1		Communicate valeurent augestieren elegatiken
			Formulate relevant questions about the
			properties of objects, organisms, and events of
Air Engines (10.16)	^7	001244004	the environment using observations and prior
Air Engines (12-16)	AZ	SCI.3.1.1.PO 1	knowledge.
Air Engines (10.16)	^7	CCI 2 4 2 DC 4	Use metric and U.S. customary units to measure
Air Engines (12-16)	AZ	SCI.3.1.2.PO 4	objects.
Air Engines (10.16)	^7	001242002	Construct reasonable interpretations of the
Air Engines (12-16)	AZ	SCI.3.1.3.PO 2	collected data based on formulated questions.
			Generate questions for possible future investigations based on the conclusions of the
Air Engines (10.16)	^7	SCI.3.1.3.PO 4	
Air Engines (12-16)	AZ	SCI.3. 1.3.PU 4	investigation.
Air Engines (12.16)	^7	CCI 2 1 2 DO 5	Record questions for further inquiry based on
Air Engines (12-16)	AZ	SCI.3.1.3.PO 5 SCI.3.1.3.PO	the conclusions of the investigation.
Dotor Motor (60.75)	^7		Organize data using the following methods with
Rotor Motor (69-75)	AZ	1.a	appropriate labels (bar graphs)
Dotor Motor (60.75)	^7	CCI 2 1 2 DC 2	Construct reasonable interpretations of the
Rotor Motor (69-75)	AZ	SCI.3.1.3.PO 2	collected data based on formulated questions.
			Generate questions for possible future investigations based on the conclusions of the
Poter Moter (60.75)	AZ	SCI.3.1.3.PO 4	investigations based on the conclusions of the investigation.
Rotor Motor (69-75) Making Time Fly (80-	AZ	301.3.1.3.50 4	Communicate with other groups to describe the
86)	AZ	SCI.3.1.4.PO 3	results of an investigation.
00)	AZ	301.3.1.4.20 3	Identify how diverse people and/or cultures, past
			and present, have made important contributions
			l ·
			to scientific innovations (e.g., John Muir
			[naturalist], supports Strand 4; Thomas Edison
			[inventor], supports Strand 5; Mae Jemison
Making Time Fly (90			[engineer, physician, astronaut], supports Strand
Making Time Fly (80-86)	AZ	SCI.3.2.1.PO 1	6,; Edmund Halley [scientist], supports Strand
Where is North? The	AZ	301.3.2.1.90 1	6).
			Generate questions for possible future
Compass Can Tell Us	AZ	SCI 2 1 2 DO 4	investigations based on the conclusions of the
(87-90) Let's Build a Table Top		SCI.3.1.3.PO 4	investigation.  Communicate investigations and explanations
·	AZ	SCI.3.1.4.PO 1	using evidence and appropriate terminology.
Airport (91-96)	<u> </u>	301.3.1.4.FU T	Design and construct a technological solution to
Let's Build a Table Top			a common problem or need using common
Airport (91-96)	AZ	SCI.3.3.2.PO 3	
Allport (91-90)	AZ.	301.3.3.2.F0 3	materials.
			Formulate relevant questions about the properties of objects, organisms, and events of
Dunked Nankin / 17			
Dunked Napkin (17-	\ <sub>\Lambda\7</sub>	SCI 3 1 1 DO 1	the environment using observations and prior
22) Dunked Napkin ( 17-	AZ	SCI.3.1.1.PO 1	knowledge.  Predict the results of an investigation based on
' '	AZ	SCI 3 1 1 DO 2	
Dunked Napkin ( 17	AC	SCI.3.1.1.PO 2	observed patterns, not random guessing.  Construct reasonable interpretations of the
Dunked Napkin (17-	AZ	SCI 3 1 2 DO 2	collected data based on formulated questions.
Dunked Napkin ( 17	AC	SCI.3.1.3.PO 2	•
Dunked Napkin (17-	\ <sub>\^\7</sub>	SCI 2 1 2 DO 2	Compare the results of the investigation to
22)	AZ	SCI.3.1.3.PO 3	predictions made prior to the investigation.
Dunkad Nambin / 47			Generate questions for possible future
Dunked Napkin (17-	^7	001242504	investigations based on the conclusions of the
Duralisa d Nambia (47	AZ	SCI.3.1.3.PO 4	investigation.
Dunked Napkin (17-	\	001040005	Record questions for further inquiry based on
22)	AZ	SCI.3.1.3.PO 5	the conclusions of the investigation.

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68)	AZ	SCI.3.1.1.PO 2	observed patterns, not random guessing.
Delta Wing Glider (60-			Predict the results of an investigation based on
Right Flight (52-59)	AZ	SCI.3.1.1.PO 2	observed patterns, not random guessing.
,			Predict the results of an investigation based on
Sled Kite (44-51)	AZ	SCI.3.3.2.PO 3	materials.
			a common problem or need using common
Olda Mile (+4-01)	\ <u>\</u>	001.3.1.3.1 0 4	Design and construct a technological solution to
Sled Kite (44-51)	AZ	SCI.3.1.3.PO 4	investigation.
			investigations based on the conclusions of the
Day DailOU115 (40-43)	74	301.3.1.3.FU 4	Generate questions for possible future
Bag Balloons (40-43)	AZ	SCI.3.1.3.PO 4	investigation.
			investigations based on the conclusions of the
J9)	74	301.3.3.2.503	Generate questions for possible future
39)	AZ	SCI.3.3.2.PO 3	
Learning Activities (36-			a common problem or need using common
Air: Interdisciplinary	, <u>, , , , , , , , , , , , , , , , , , </u>	001.0.1.0.1 0 0	Design and construct a technological solution to
(29-35)	AZ	SCI.3.1.3.PO 5	the conclusions of the investigation.
Wind in Your Socks)	, <u>.</u>	331.0.1.0.1 3 4	Record questions for further inquiry based on
(29-35)	AZ	SCI.3.1.3.PO 4	investigation.
Wind in Your Socks)			investigations based on the conclusions of the
,			Generate questions for possible future
(29-35)	AZ	SCI.3.1.3.PO 2	collected data based on formulated questions.
Wind in Your Socks)			Construct reasonable interpretations of the
(29-35)	AZ	SCI.3.1.2.PO 4	objects.
Wind in Your Socks)			Use metric and U.S. customary units to measure
(29-35)	AZ	SCI.3.1.1.PO 1	knowledge.
Wind in Your Socks)			the environment using observations and prior
			properties of objects, organisms, and events of
			Formulate relevant questions about the
28)	AZ	SCI.3.1.3.PO 5	the conclusions of the investigation.
Paper Bag Mask (23-			Record questions for further inquiry based on
28)	AZ	SCI.3.1.3.PO 4	investigation.
Paper Bag Mask (23-			investigations based on the conclusions of the
D D 14 1 (25			Generate questions for possible future
28)	AZ	SCI.3.1.3.PO 3	predictions made prior to the investigation.
Paper Bag Mask (23-	\ \^ \7	001040506	Compare the results of the investigation to
28)	AZ	SCI.3.1.3.PO 2	collected data based on formulated questions.
Paper Bag Mask (23-		0015155	Construct reasonable interpretations of the
28)	AZ	SCI.3.1.2.PO 4	objects.
Paper Bag Mask (23-		00101000	Use metric and U.S. customary units to measure
28)	AZ	SCI.3.1.1.PO 2	observed patterns, not random guessing.
Paper Bag Mask (23-	47	00104450	Predict the results of an investigation based on
28)	AZ	SCI.3.1.1.PO 1	knowledge.
Paper Bag Mask (23-	\ <sub>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</sub>	001044504	the environment using observations and prior
Denen Den Meete (CC			properties of objects, organisms, and events of
			Formulate relevant questions about the
22)	AZ	SCI.3.1.4.PO 2	others to repeat it.
Dunked Napkin (17-	\ \_ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	001044503	Describe an investigation in ways that enable
22)	AZ	SCI.3.1.4.PO 1	using evidence and appropriate terminology.
		00104450	Communicate investigations and explanations
Dunked Napkin (17-			TO A DECEMBER OF THE CONTRACT OF THE CANDIDATION OF

Grade Level Articulations			
Arizona Science			
Grade 4			
Activity/Lesson	State	Standards	
			Formulate a relevant question through
			observations that can be tested by an
Air Engines (12-16)	AZ	SCI.4.1.1.PO 2	investigation.
			Formulate predictions in the realm of science
Air Engines (12.16)	^7	SCI.4.1.1.PO 3	based on observed cause and effect
Air Engines (12-16)	AZ	301.4.1.1.20 3	relationships.  Determine that data collected is consistent with
Air Engines (12-16)	AZ	SCI.4.1.3.PO 3	the formulated question.
All Eligines (12-10)	/\Z	001.4.1.0.1 0 0	Develop new questions and predictions based
Air Engines (12-16)	AZ	SCI.4.1.3.PO 5	upon the data collected in the investigation.
gcc ()			Plan a simple investigation that identifies the
Rotor Motor (69-75)	AZ	SCI.4.1.2.PO 2	variables to be controlled.
			Develop new questions and predictions based
Rotor Motor (69-75)	AZ	SCI.4.1.3.PO 5	upon the data collected in the investigation.
		SCI.4.1.4.PO	Choose an appropriate graphic representation
Rotor Motor (69-75)	AZ	2.a	for collected data (bar graph)
_ , , , , , , , , , , , , , , , , , , ,		SCI.4.1.4.PO	Choose an appropriate graphic representation
Rotor Motor (69-75)	AZ	2.b	for collected data (line graph)
Making Time Fly (80-	A 7	001440005	Develop new questions and predictions based
86)	AZ	SCI.4.1.3.PO 5	upon the data collected in the investigation.
Making Time Fly (80-86)	AZ	SCI.4.1.4.PO 1	Communicate verbally or in writing the results of an inquiry.
00)	AL	301.4.1.4.50 1	ari iriquii y.
Making Time Fly (80-			Communicate with other groups or individuals to
86)	AZ	SCI.4.1.4.PO 3	compare the results of a common investigation.
			process and a second
			Identify how diverse people and/or cultures, past
			and present, have made important contributions
			to scientific innovations (e.g., Margaret Mead
			[anthropologist], supports Strand 4; Nikola Tesla
			[engineer, inventor] supports Strand 5; Michael
Making Time Fly (80-	A 7	001404504	Faraday [scientist], supports Strand 5; Benjamin
Where is North? The	AZ	SCI.4.2.1.PO 1	Franklin [scientist], supports Strand 5).
Where is North? The Compass Can Tell Us			Formulate a relevant question through observations that can be tested by an
(87-90)	AZ	SCI.4.1.1.PO 2	investigation.
Where is North? The	, v_	JOI. <del>1</del> .1.1.1 U Z	invodugation.
Compass Can Tell Us			Develop new questions and predictions based
(87-90)	AZ	SCI.4.1.3.PO 5	upon the data collected in the investigation.
			Investigate the characteristics of magnets (e.g.,
Where is North? The			opposite poles attract, like poles repel, the force
Compass Can Tell Us			between two magnet poles depends on the
(87-90)	AZ	SCI.4.5.3.PO 4	distance between them).
Let's Build a Table Top		SCI.4.1.4.PO	Choose an appropriate graphic representation
Airport (91-96)	AZ	2.d	for collected data (model)
Lana Bana Tara T			Design and construct a technological solution to
Let's Build a Table Top		CCI 4 2 2 DC 2	a common problem or need using common
Airport (91-96)	AZ	SCI.4.3.2.PO 3	materials.

We Can Fly Vou and			
We Can Fly, You and		CCI 4 4 4 DO	Change on appropriate graphic representation
I: Interdisciplinary	. 7	SCI.4.1.4.PO	Choose an appropriate graphic representation
Learning (107-108)	AZ	2.d	for collected data (model)
We Can Fly, You and			Describe how natural events and human
I: Interdisciplinary			activities have positive and negative impacts on
Learning (107-108)	AZ	SCI.4.3.1.PO 1	environments (e.g., fire, floods, pollution, dams).
Learning (107-100)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	301.4.3.1.1 0 1	Formulate a relevant question through
Dunked Napkin ( 17-			observations that can be tested by an
	^7	SCI.4.1.1.PO 2	investigation.
22)	AZ	301.4.1.1.90 2	5
Dunka d Nambia / 47			Formulate predictions in the realm of science
Dunked Napkin (17-	. 7		based on observed cause and effect
22)	AZ	SCI.4.1.1.PO 3	relationships.
Dunked Napkin (17-			Locate information (e.g., book, article, website)
22)	AZ	SCI.4.1.1.PO 4	related to an investigation.
Dunked Napkin (17-			Formulate conclusions based upon identified
22)	AZ	SCI.4.1.3.PO 2	trends in data.
Dunked Napkin (17-			Determine that data collected is consistent with
22)	AZ	SCI.4.1.3.PO 3	the formulated question.
Dunked Napkin (17-			Determine whether the data supports the
22)	AZ	SCI.4.1.3.PO 4	prediction for an investigation.
Dunked Napkin (17-			Develop new questions and predictions based
22)	AZ	SCI.4.1.3.PO 5	upon the data collected in the investigation.
Dunked Napkin ( 17-			Explain the role of experimentation in scientific
22)	AZ	SCI.4.2.2.PO 1	inquiry.
,			Explain various ways scientists generate ideas
Dunked Napkin (17-			(e.g., observation, experiment, collaboration,
22)	AZ	SCI.4.2.2.PO 3	theoretical and mathematical models).
<i>LL</i> )	/ V_	OO1.4.2.2.1 O 0	Formulate a relevant question through
Paper Bag Mask (23-			observations that can be tested by an
28)	AZ	SCI.4.1.1.PO 2	investigation.
20)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	301.4.1.1.1 0 2	Formulate predictions in the realm of science
Paper Bag Mask (23-			based on observed cause and effect
	AZ	SCI.4.1.1.PO 3	
28)	AZ	301.4.1.1.903	relationships.
Paper Bag Mask (23-	A 7	0014427002	Determine that data collected is consistent with
28)	AZ	SCI.4.1.3.PO 3	the formulated question.
Paper Bag Mask (23-	. 7	001 4 4 0 00 4	Determine whether the data supports the
28)	AZ	SCI.4.1.3.PO 4	prediction for an investigation.
Paper Bag Mask (23-			Develop new questions and predictions based
28)	AZ	SCI.4.1.3.PO 5	upon the data collected in the investigation.
Paper Bag Mask (23-			Explain the role of experimentation in scientific
28)	AZ	SCI.4.2.2.PO 1	inquiry.
			Explain various ways scientists generate ideas
Paper Bag Mask (23-			(e.g., observation, experiment, collaboration,
28)	AZ	SCI.4.2.2.PO 3	theoretical and mathematical models).
			Formulate a relevant question through
Wind in Your Socks)			observations that can be tested by an
(29-35)	AZ	SCI.4.1.1.PO 2	investigation.
,			Formulate predictions in the realm of science
Wind in Your Socks)			based on observed cause and effect
(29-35)	AZ	SCI.4.1.1.PO 3	relationships.
(== 00)	ı- <del></del>	55	. J. S. S. Tornpor

			Measure using appropriate tools (e.g., ruler,
Wind in Your Socks)			scale, balance) and units of measure (i.e.,
(29-35)	AZ	SCI.4.1.2.PO 4	metric, U.S. customary).
Wind in Your Socks)			Determine that data collected is consistent with
(29-35)	AZ	SCI.4.1.3.PO 3	the formulated question.
Wind in Your Socks)			Develop new questions and predictions based
(29-35)	AZ	SCI.4.1.3.PO 5	upon the data collected in the investigation.
			Explain various ways scientists generate ideas
Wind in Your Socks)			(e.g., observation, experiment, collaboration,
(29-35)	AZ	SCI.4.2.2.PO 3	theoretical and mathematical models).
Air: Interdisciplinary			Design and construct a technological solution to
Learning Activities (36-	-		a common problem or need using common
39)	AZ	SCI.4.3.2.PO 3	materials.
			Plan a simple investigation that identifies the
Sled Kite (44-51)	AZ	SCI.4.1.2.PO 2	variables to be controlled.
			Design and construct a technological solution to
			a common problem or need using common
Sled Kite (44-51)	AZ	SCI.4.3.2.PO 3	materials.
Right Flight (52-59)	AZ	SCI.4.1.1.PO 1	Differentiate inferences from observations.
			Formulate predictions in the realm of science
			based on observed cause and effect
Right Flight (52-59)	AZ	SCI.4.1.1.PO 3	relationships.
			Determine whether the data supports the
Right Flight (52-59)	AZ	SCI.4.1.3.PO 4	prediction for an investigation.
			Develop new questions and predictions based
Right Flight (52-59)	AZ	SCI.4.1.3.PO 5	upon the data collected in the investigation.
		SCI.4.1.4.PO	Choose an appropriate graphic representation
Right Flight (52-59)	AZ	2.d	for collected data (model)
Delta Wing Glider (60-			
68)	AZ	SCI.4.1.1.PO 1	Differentiate inferences from observations.
			Formulate predictions in the realm of science
Delta Wing Glider (60-			based on observed cause and effect
68)	AZ	SCI.4.1.1.PO 3	relationships.
Delta Wing Glider (60-			Determine whether the data supports the
68)	AZ	SCI.4.1.3.PO 4	prediction for an investigation.
Delta Wing Glider (60-			Develop new questions and predictions based
68)	AZ	SCI.4.1.3.PO 5	upon the data collected in the investigation.
Delta Wing Glider (60-		SCI.4.1.4.PO	Choose an appropriate graphic representation
68)	AZ	2.d	for collected data (model)